

## Water-Data Report 2008

**01411360 GREAT CHANNEL AT STONE HARBOR, NJ**
**GREAT CHANNEL**

LOCATION.--Lat 39°03'24", long 74°45'51" referenced to North American Datum of 1983, Stone Harbor Borough, Cape May County, NJ, Hydrologic Unit 02040302, on county pier near east abutment of bridge on Stone Harbor Boulevard (County Route 657) at the west edge of Stone Harbor, 3.7 mi southeast of Cape May Court House, and 3.9 mi southwest of Avalon.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Continuous-record tide gage, water years 1964 to 1977, October 1977 to May 1978, March 2000 to current year. Annual maximum tide, water years 1979 to 1999. Unpublished fragmentary gage-height record, May 1997 to February 2000.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is at 0.00 ft NAVD of 1988. To determine approximate elevations to NGVD of 1929, add 1.31 ft. To determine approximate elevations to Mean Lower Low Water datum, add 2.61 ft (revised to Tidal Epoch 1983-2001). From October 1964 to September 1999, datum of crest-stage gage at 0.00 ft NGVD of 1929. From October 1977 to May 1978, water-stage recorder located at south side of bridge and datum of gage at 0.00 ft NGVD of 1929. Data published to NGVD of 1929 can be adjusted to NAVD of 1988 by subtracting 1.31 ft. Online annual tidal peaks have been adjusted to current datum.

REMARKS.--Missing gage-height record on short portions of days. Summaries for months with short periods of missing gage-height record have been estimated with little or no loss of accuracy. Some periods cannot be estimated and are noted by dashed (---) lines. Satellite stage telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 6.02 ft (from tidal crest-stage gage, adjusted to NAVD of 1988), Mar 29, 1984; minimum elevation recorded, -5.04 ft, Feb 17, 2007.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5.21 ft, May 12; minimum elevation recorded, -4.76 ft, Mar 9.

Statistics of Tide Elevations, in feet  
Water Year October 2007 to September 2008

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	2.21	0.25	-1.83
November	1.93	-0.03	-2.06
December	1.72	-0.21	-2.24
CALENDAR YEAR 2007	1.85	-0.11	-2.19
January	1.57	-0.33	-2.30
February	1.57	-0.35	-2.40
March	1.61	-0.27	-2.26
April	2.07	0.16	-1.87
May	2.33	0.40	-1.68
June	2.01	0.03	-2.07
July	1.96	-0.03	-2.13
August	2.15	0.17	-1.95
September	2.33	0.46	-1.59
WATER YEAR 2008	1.96	0.02	-2.03

**01411360 GREAT CHANNEL AT STONE HARBOR, NJ—Continued**

**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
[*e*, estimated]

Day	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low
	<b>October</b>				<b>November</b>				<b>December</b>			
<b>1</b>	2.95	0.28	-2.02	2.11	-0.24	-2.18	0.63	-1.27	-3.30	1.34	-0.44	-2.44
<b>2</b>	2.82	0.30	-1.90	2.82	0.77	-1.21	1.53	-0.29	-1.86	1.02	-0.95	-2.54
<b>3</b>	2.48	0.20	-1.75	3.82	2.15	-0.40	1.72	-0.65	-3.27	1.53	-0.58	-2.25
<b>4</b>	2.30	0.16	-1.81	2.14	0.19	-2.24	0.20	-1.61	-3.31	1.69	-0.84	-3.18
<b>5</b>	2.12	0.03	-1.86	1.74	-0.18	-2.23	1.34	-0.49	-2.10	0.77	-1.22	-2.93
<b>6</b>	2.22	0.04	-1.90	2.50	-0.06	-2.32	2.14	-0.06	-1.70	1.55	-0.58	-2.86
<b>7</b>	2.82	0.26	-2.02	1.56	-0.48	-2.60	2.01	-0.38	-2.27	2.33	-0.25	-2.31
<b>8</b>	2.41	0.46	-1.77	2.27	0.00	-2.31	1.90	-0.66	-2.66	2.30	-0.43	-2.59
<b>9</b>	3.34	0.75	-1.97	2.53	0.22	-2.00	2.08	-0.58	-2.80	2.35	-0.59	-3.05
<b>10</b>	3.19	1.14	-1.05	3.01	0.70	-1.67	2.44	-0.19	-2.41	2.20	-0.53	-2.84
<b>11</b>	3.42	1.06	-1.16	3.00	0.58	-1.40	2.50	-0.11	-2.25	2.63	-0.02	-2.42
<b>12</b>	2.23	0.26	-1.90	2.39	-0.18	-2.30	1.95	-0.69	-2.86	2.42	-0.06	-2.21
<b>13</b>	2.57	0.29	-1.79	2.36	-0.15	-2.03	2.66	-0.04	-2.33	2.68	0.37	-1.76
<b>14</b>	2.32	-0.04	-1.91	2.41	0.06	-1.77	2.47	0.09	-1.92	2.85	0.82	-1.52
<b>15</b>	2.28	-0.01	-1.70	2.17	-0.10	-1.63	2.22	0.06	-2.10	2.15	-0.22	-2.67
<b>16</b>	2.11	-0.05	-1.75	1.35	-0.85	-2.68	3.71	1.29	-1.66	1.33	-0.76	-2.95
<b>17</b>	2.12	0.04	-1.52	1.34	-0.90	-2.57	0.64	-1.91	-3.82	1.96	0.19	-1.55
<b>18</b>	2.19	0.10	-1.52	2.14	0.00	-1.73	0.78	-1.21	-3.12	3.29	0.21	-2.52
<b>19</b>	2.45	0.38	-1.20	2.39	0.63	-1.36	1.76	-0.31	-2.52	2.02	-0.41	-2.55
<b>20</b>	2.28	0.17	-1.90	2.38	0.27	-2.26	2.42	-0.06	-2.55	2.44	-0.51	-2.79
<b>21</b>	1.84	-0.32	-2.39	2.47	0.28	-2.24	2.94	0.90	-1.37	1.74	-1.03	-3.66
<b>22</b>	2.33	-0.17	-2.19	3.01	0.29	-2.04	3.70	0.85	-1.72	2.31	-0.79	-3.48
<b>23</b>	2.59	0.07	-2.49	2.95	-0.06	-3.17	3.49	0.61	-2.08	2.35	-0.65	-3.35
<b>24</b>	2.82	0.07	-2.74	3.01	-0.15	-2.90	3.09	-0.31	-2.98	2.61	-0.23	-3.21
<b>25</b>	3.76	1.37	-2.09	2.80	-0.38	-3.18	2.34	-0.86	-3.73	2.23	-0.53	-3.03
<b>26</b>	4.10	1.32	-1.54	2.76	-0.23	-3.06	2.93	0.23	-3.10	2.06	-0.42	-2.67
<b>27</b>	3.71	0.49	-2.52	2.31	-0.77	-3.26	3.57	1.01	-1.37	2.30	0.39	-1.60
<b>28</b>	2.87	-0.21	-2.89	1.98	-0.98	-3.80	2.28	-0.01	-2.12	2.60	0.97	-0.84
<b>29</b>	3.05	-0.02	-2.47	2.19	-0.48	-2.58	2.25	0.09	-2.00	2.35	0.44	-1.26
<b>30</b>	2.45	-0.36	-2.62	1.79	-0.79	-2.65	1.63	-0.06	-2.02	1.92	-0.58	-2.38
<b>31</b>	2.38	-0.25	-2.36	---	---	---	2.54	-0.07	-2.10	0.49	-0.95	-2.35
<b>Max</b>	4.10	1.37	-1.05	3.82	2.15	-0.40	3.71	1.29	-1.37	3.29	0.97	-0.84
<b>Min</b>	1.84	-0.36	-2.89	1.34	-0.98	-3.80	0.20	-1.91	-3.82	0.49	-1.22	-3.66

## 01411360 GREAT CHANNEL AT STONE HARBOR, NJ—Continued

**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
[e, estimated]

Day	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
<b>1</b>	1.62	0.36	-1.49	1.15	-0.60	-2.00	1.47	-0.66	-2.77	1.99	0.19	-1.98
<b>2</b>	1.31	-1.06	-2.89	0.69	-1.09	-2.50	0.86	-0.97	-2.79	2.61	0.35	-2.21
<b>3</b>	1.05	-0.94	-2.67	1.18	-0.71	-2.38	1.51	-0.71	-3.00	3.51	0.94	-1.70
<b>4</b>	1.78	-0.32	-1.92	1.56	-0.56	-2.31	2.33	-0.25	-2.88	3.33	0.72	-2.16
<b>5</b>	2.33	-0.06	-2.32	2.16	-0.15	-2.40	2.77	0.04	-2.77	3.31	0.29	-2.48
<b>6</b>	2.62	-0.08	-2.54	2.41	-0.16	-2.65	4.23	0.88	-2.58	3.27	0.12	-2.68
<b>7</b>	2.60	0.07	-2.42	2.97	0.38	-2.74	4.10	1.32	-1.48	3.35	0.11	-2.56
<b>8</b>	3.16	0.40	-2.24	2.73	0.18	-2.35	3.29	0.99	-1.76	1.56	-0.13	-2.74
<b>9</b>	2.75	0.13	-2.52	0.48	-2.20	-4.76	1.90	0.15	-2.34	2.92	0.52	-2.32
<b>10</b>	2.56	-0.45	-3.06	1.73	-1.28	-4.42	2.98	-0.10	-2.35	3.97	1.08	-1.38
<b>11</b>	0.22	-1.92	-4.36	1.70	-0.57	-3.24	2.54	-0.03	-2.19	2.92	1.10	-1.46
<b>12</b>	0.62	---	---	2.59	-0.23	-2.58	2.72	0.17	-1.79	5.21	3.56	1.47
<b>13</b>	2.37	0.13	-1.94	2.07	-0.27	-2.50	2.41	0.16	-1.84	3.80	1.70	-0.65
<b>14</b>	2.57	-0.13	-2.44	2.60	0.23	-1.76	2.35	0.22	-2.04	2.50	0.76	-1.41
<b>15</b>	1.90	-0.79	-3.06	2.84	0.63	-1.53	1.83	-0.05	-1.90	2.56	0.63	-1.47
<b>16</b>	1.84	-0.60	-2.75	3.33	1.04	-1.46	1.82	-0.19	-2.38	2.91	0.71	-1.47
<b>17</b>	2.37	-0.06	-2.24	2.08	0.20	-1.74	2.32	0.13	-2.18	2.53	0.63	-1.38
<b>18</b>	2.64	-0.01	-2.26	2.62	0.66	-1.85	2.41	0.29	-1.92	2.86	0.42	-2.00
<b>19</b>	2.34	-0.60	-3.03	3.19	1.00	-1.46	2.50	0.09	-2.14	2.43	0.15	-2.02
<b>20</b>	1.83	-0.96	-3.82	2.37	0.22	-2.42	2.87	0.27	-2.08	2.83	0.20	-2.06
<b>21</b>	1.92	-0.71	-3.41	1.14	-1.05	-3.68	2.86	0.66	-1.47	2.76	0.35	-1.67
<b>22</b>	2.38	-0.04	-3.00	2.01	-0.82	-3.66	2.48	0.28	-1.63	2.42	0.02	-1.87
<b>23</b>	2.54	0.20	-2.25	2.00	-0.38	-2.82	2.27	-0.08	-1.92	2.36	-0.20	-2.12
<b>24</b>	2.02	-0.09	-2.23	1.96	-0.42	-2.51	2.17	-0.28	-2.06	1.20	0.04	-1.87
<b>25</b>	1.67	-0.51	-2.50	2.06	-0.19	-2.30	1.09	-0.03	-1.83	2.38	-0.04	-1.81
<b>26</b>	1.60	-0.04	-2.16	0.31	-0.76	-2.57	2.25	0.50	-1.46	2.12	-0.26	-2.02
<b>27</b>	2.28	-0.16	-1.96	1.57	-0.37	-2.07	2.62	0.75	-0.83	1.48	-0.56	-2.51
<b>28</b>	1.08	-1.09	-2.78	1.91	-0.16	-1.72	2.50	0.73	-0.82	1.68	-0.09	-1.85
<b>29</b>	0.74	-0.58	-1.88	1.75	-0.33	-1.76	2.47	0.41	-1.32	1.50	-0.35	-2.36
<b>30</b>	---	---	---	1.33	-0.35	-1.64	2.19	0.22	-1.68	1.83	-0.42	-2.73
<b>31</b>	---	---	---	1.30	-0.38	-1.81	---	---	---	2.21	-0.12	-2.51
<b>Max</b>	3.16	0.40	-1.49	3.33	1.04	-1.46	4.23	1.32	-0.82	5.21	3.56	1.47
<b>Min</b>	0.22	-1.92	-4.36	0.31	-2.20	-4.76	0.86	-0.97	-3.00	1.20	-0.56	-2.74

## 01411360 GREAT CHANNEL AT STONE HARBOR, NJ—Continued

**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
[e, estimated]

Day	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low
	<b>June</b>			<b>July</b>			<b>August</b>			<b>September</b>		
<b>1</b>	2.86	-0.03	-2.66	3.15	0.14	-2.54	3.29	0.32	-2.42	2.42	0.10	-2.33
<b>2</b>	3.04	0.06	-2.64	3.03	-0.04	-2.79	3.12	0.30	-2.30	2.46	0.19	-2.33
<b>3</b>	3.23	-0.01	-2.79	2.81	-0.25	-2.90	2.69	0.21	-2.33	2.86	0.57	-1.55
<b>4</b>	3.38	-0.04	-2.88	3.19	-0.24	-3.00	2.37	0.01	-2.39	2.28	0.13	-1.74
<b>5</b>	3.23	0.10	-2.50	2.91	0.07	-2.42	2.28	0.12	-2.28	2.05	-0.05	-1.89
<b>6</b>	2.98	0.01	-2.54	1.99	0.06	-2.32	2.29	0.26	-1.80	2.89	0.52	-1.62
<b>7</b>	1.65	-0.17	-2.54	2.64	-0.07	-2.30	2.41	0.39	-1.59	1.92	-0.27	-1.83
<b>8</b>	2.53	-0.21	-2.52	2.10	-0.27	-2.40	2.30	0.30	-1.53	1.87	-0.18	-1.61
<b>9</b>	2.35	-0.02	-2.29	1.57	-0.34	-2.40	2.11	0.20	-1.53	1.91	0.04	-1.49
<b>10</b>	2.12	e0.1	-2.11	1.96	-0.11	-2.07	2.25	0.26	-1.45	2.34	0.28	-1.07
<b>11</b>	1.95	0.06	-2.03	2.03	0.03	-1.84	2.17	0.25	-1.40	2.19	0.17	-1.47
<b>12</b>	1.78	-0.15	-2.19	1.93	0.02	-1.72	2.26	0.17	-1.54	2.36	0.09	-1.80
<b>13</b>	1.83	-0.19	-2.15	2.28	0.14	-1.60	2.55	0.12	-1.71	2.54	0.07	-2.02
<b>14</b>	2.22	-0.08	-2.01	2.28	0.12	-1.72	2.65	0.25	-1.75	2.77	0.34	-2.04
<b>15</b>	2.62	0.30	-1.75	2.40	0.06	-1.80	2.74	0.28	-1.82	2.45	0.01	-2.50
<b>16</b>	2.57	0.37	-1.52	2.52	0.04	-1.83	2.56	0.08	-2.12	2.67	0.19	-2.41
<b>17</b>	2.69	0.23	-1.78	2.50	-0.03	-2.05	2.61	-0.05	-2.28	2.79	0.30	-2.24
<b>18</b>	2.73	0.29	-1.66	2.41	-0.16	-2.16	2.45	-0.16	-2.46	2.78	0.31	-2.25
<b>19</b>	2.73	0.20	-1.68	2.32	-0.28	-2.30	2.29	-0.15	-2.51	3.52	1.02	-1.41
<b>20</b>	2.50	0.03	-1.89	2.37	-0.28	-2.40	2.53	0.16	-2.10	3.11	0.75	-1.44
<b>21</b>	2.36	-0.09	-2.01	2.52	-0.02	-2.22	2.12	-0.19	-2.45	2.60	0.19	-1.82
<b>22</b>	1.30	-0.09	-2.04	1.84	0.03	-2.09	2.26	-0.17	-2.46	2.66	0.30	-1.97
<b>23</b>	2.43	0.04	-1.85	2.32	0.05	-2.14	2.36	-0.10	-2.30	3.13	1.04	-0.95
<b>24</b>	2.32	-0.21	-2.10	1.92	-0.12	-2.23	2.39	0.00	-2.13	3.35	1.21	-0.67
<b>25</b>	1.91	-0.32	-2.33	2.05	-0.15	-2.24	2.47	-0.02	-2.12	4.32	2.00	-0.57
<b>26</b>	1.80	-0.15	-2.29	2.18	-0.14	-2.39	2.84	0.39	-1.48	3.31	1.57	-0.84
<b>27</b>	2.21	0.15	-2.00	2.61	0.04	-2.21	3.04	0.38	-1.96	3.05	0.80	-1.72
<b>28</b>	2.51	0.27	-1.96	2.74	0.25	-2.13	3.18	0.50	-2.02	2.94	0.83	-1.60
<b>29</b>	2.74	0.26	-2.12	2.79	0.07	-2.51	3.25	0.61	-1.96	2.95	0.65	-1.77
<b>30</b>	3.05	0.15	-2.48	3.19	0.15	-2.49	2.74	0.34	-2.33	2.84	0.54	-1.97
<b>31</b>	---	---	---	3.37	0.30	-2.40	2.62	0.16	-2.39	---	---	---
<b>Max</b>	3.38	0.37	-1.52	3.37	0.30	-1.60	3.29	0.61	-1.40	4.32	2.00	-0.57
<b>Min</b>	1.30	-0.32	-2.88	1.57	-0.34	-3.00	2.11	-0.19	-2.51	1.87	-0.27	-2.50

**01411360 GREAT CHANNEL AT STONE HARBOR, NJ—Continued**